

REMARKS

In response to the objection set forth in paragraph 3 to the drawings, claim 3 has been amended. In response to the objection set forth in paragraph 4, claim 6 has been canceled. The objections set forth in paragraph 5 to claims 3 and 6, therefore, have been overcome.

Reconsideration of the rejection of claim 8 is respectfully requested. As explained at page 6, lines 4-14, of the present application, by successively implanting different conductivity types to different depths in the same material, layers of different conductivity may be formed. These layers may have different extents of conductivity and different conductivity types in some cases. Thus, by simply varying the type and nature of the implantation conditions, the peak profiles can be adjusted within the substrate, creating regions in the form of layers one above the other, that have different levels of conductivity, as well as different conductivity types in some cases.

Therefore, reconsideration of the rejection of claim 8 is respectfully requested.

With respect to the objection to claim 1, the requirement that the trench be formed using the tapered electrode as the mask defines with sufficient particularity where the trench must be. It must be aligned with the electrode, obviously. Beyond this, it is not believed that one skilled in the art would need any further help. There is no requirement that the limitation be defined any further since it should be patentable to the scope already recited. The requirement that the method of forming the trench be recited is non-statutory. There is no reason that the claim must be limited to one particular way of forming a trench. Certainly those skilled in the art very well know many different ways to form a trench. As to where it would be formed, as long as it is formed using the electrode as a mask, it matters not where it is formed. Therefore, there is no reason that the claim is indefinite. The rejection amounts to an assertion that the claim should be narrowed, but there is no reason under Section 112 or the prior art to narrow the claim.

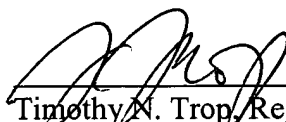
Claims 1-12 were rejected under Section 102 based on Pryor. However, Pryor does not teach forming a trench whatsoever, much less forming a trench using the tapered electrode as a mask. This must be so, because in Figures 1-3 there is no trench. Moreover, there is no trench that possibly could have been formed using either electrode as a mask.

Therefore, reconsideration of the rejection is respectfully requested.

In view of these remarks, the application should now be in condition for allowance.

Respectfully submitted,

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A handwritten signature in black ink, appearing to read 'Timothy N. Trop', is written over a horizontal line.

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